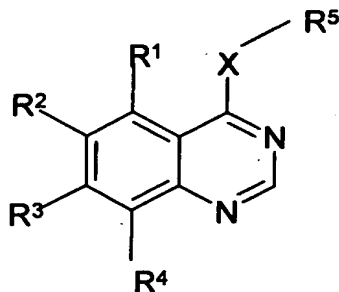


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Claims

1. A compound of formula (I)



(I)

or a salt, ester, amide or prodrug thereof;

where X is O, or S, S(O), S(O)₂ or NR⁶ where R⁶ is hydrogen or C₁₋₆alkyl;

R⁵ is an optionally substituted 6-membered aromatic ring containing at least one nitrogen atom, and

R¹, R², R³, R⁴ are independently selected from halogeno, cyano, nitro,

C₁₋₃alkylsulphanyl, -N(OH)R⁷- (wherein R⁷ is hydrogen, or C₁₋₃alkyl), or R⁹X¹-

(wherein X¹ represents a direct bond, -O-, -CH₂-, -OC(O)-, -C(O)-, -S-, -SO-,

-SO₂-, -NR¹⁰C(O)-, -C(O)NR¹¹-, -SO₂NR¹²-, -NR¹³SO₂- or -NR¹⁴- (wherein R¹⁰,

R¹¹, R¹², R¹³ and R¹⁴ each independently represents hydrogen, C₁₋₃alkyl or

C₁₋₃alkoxyC₂₋₃alkyl)), and R⁹ is hydrogen, optionally substituted hydrocarbyl,

optionally substituted heterocyclyl or optionally substituted alkoxy; provided that

at least one of R² or R³ is other than hydrogen.

2. A compound according to claim 1 wherein at least one group R¹, R², R³, R⁴ is a group R⁹X¹- and R⁹ is hydrogen, an optionally substituted hydrocarbyl group selected from alkyl, alkenyl, alkynyl, aryl, aralkyl, cycloalkyl, cycloalkenyl or cycloalkynyl, or combinations thereof; or an optionally substituted heterocyclyl group of from 4 to 20 ring atoms, at least one of which is a heteroatom such as oxygen, sulphur or nitrogen and where the optional substituents comprise at least one functional group selected from nitro, cyano, halo, oxo, =CR⁷⁸R⁷⁹, C(O)_xR⁷⁷, OR⁷⁷, S(O)_yR⁷⁷, NR⁷⁸R⁷⁹, C(O)NR⁷⁸R⁷⁹, OC(O)NR⁷⁸R⁷⁹, =NOR⁷⁷, -NR⁷⁷C(O)_xR⁷⁸, -NR⁷⁷CONR⁷⁸R⁷⁹, -N=CR⁷⁸R⁷⁹, S(O)_yNR⁷⁸R⁷⁹ or

or different each represents hydrogen, C₁₋₅alkyl, hydroxyC₁₋₅alkyl or C₁₋₃alkoxyC₂₋₃alkyl));

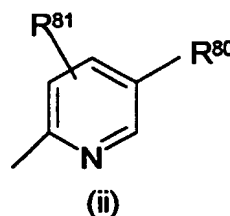
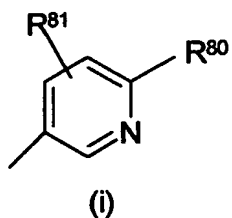
- 3) -R^bX³R²⁰ (wherein X³ represents -O-, C(O) -S-, -SO-, -SO₂-, -OC(O)-, -NR²¹C(O)_s-, -C(O)NR²²-, -SO₂NR²³-, -NR²⁴SO₂- or -NR²⁵- (wherein R²¹, R²², R²³, R²⁴ and R²⁵ each independently represents hydrogen, C₁₋₃alkyl, hydroxy C₁₋₄alkyl or C₁₋₃alkoxyC₂₋₃alkyl and s is 1 or 2) and R²⁰ represents hydrogen, C₁₋₆alkyl, C₂₋₆alkenyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, phenyl or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which C₁₋₆alkyl group may bear 1, 2 or 3 substituents selected from oxo, hydroxy, halogeno, cyclopropyl, amino, C₁₋₄alkylamino, C₁₋₄alkanoyldi-C₁₋₄alkylamino, C₁₋₄alkylthio, C₁₋₄alkoxy and which cyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, cyano, C₁₋₄cyanoalkyl, C₁₋₄alkyl, C₁₋₄hydroxyalkyl, C₁₋₄alkoxy, C₁₋₄alkoxyC₁₋₄alkyl, C₁₋₄alkylsulphonylC₁₋₄alkyl, C₁₋₄alkoxycarbonyl, C₁₋₄aminoalkyl, C₁₋₄alkylamino, di(C₁₋₄alkyl)amino, C₁₋₄alkylaminoC₁₋₄alkyl, di(C₁₋₄alkyl)aminoC₁₋₄alkyl, C₁₋₄alkylaminoC₁₋₄alkoxy, di(C₁₋₄alkyl)aminoC₁₋₄alkoxy and a group -(O)_f(R^b)_gD (wherein f is 0 or 1, g is 0 or 1 and D is a C₃₋₆cycloalkyl group or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which cyclic group may bear one or more substituents selected from C₁₋₄alkyl));
- 4) -R^cX⁴R^cX⁵R²⁶ (wherein X⁴ and X⁵ which may be the same or different are each -O-, C(O), -S-, -SO-, -SO₂-, -NR²⁷C(O)_s-, -C(O)_xNR²⁸-, -SO₂NR²⁹-, -NR³⁰SO₂- or -NR³¹- (wherein R²⁷, R²⁸, R²⁹, R³⁰ and R³¹ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl and s is 1 or 2) and R²⁶ represents hydrogen, C₁₋₃alkyl, hydroxyC₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl);
- 5) R³² (wherein R³² is a 4-6-membered cycloalkyl or saturated heterocyclic ring (linked via carbon or nitrogen) with 1-2 heteroatoms, selected independently from O, S and N, which cycloalkyl or heterocyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, cyano, C₁₋₄alkyl, hydroxyC₁₋₄alkyl, cyanoC₁₋₄alkyl, cyclopropyl, C₁₋₄alkylsulphonylC₁₋₄alkyl, C₁₋₄alkoxycarbonyl, carboxamido, C₁₋₄aminoalkyl, C₁₋₄alkylamino,

- di(C₁₋₄alkyl)amino, C₁₋₄alkylaminoC₁₋₄alkyl, C₁₋₄alkanoyl,
 di(C₁₋₄alkyl)aminoC₁₋₄alkyl, C₁₋₄alkylaminoC₁₋₄alkoxy,
 di(C₁₋₄alkyl)aminoC₁₋₄alkoxy nitro, amino, C₁₋₄alkoxy, C₁₋₄hydroxyalkoxy,
 carboxy, trifluoromethyl, -C(O)NR³⁸R³⁹, -NR⁴⁰C(O)R⁴¹ (wherein R³⁸, R³⁹, R⁴⁰
 and R⁴¹, which may be the same or different, each represents hydrogen, C₁₋₄alkyl,
 hydroxyC₁₋₄alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and a group $-(O)_f(C_{1-4}alkyl)_g ring D$
 (wherein f is 0 or 1, g is 0 or 1 and ring D is a cyclic group selected from
 C₃₋₆cycloalkyl, aryl or 5-6-membered saturated or unsaturated heterocyclic group
 with 1-2 heteroatoms, selected independently from O, S and N, which cyclic
 group may bear one or more substituents selected from halo and C₁₋₄alkyl);
- 6) -R^dR³² (wherein R³² is as defined hereinbefore);
- 7) -R^eR³² (wherein R³² is as defined hereinbefore);
- 8) -R^fR³² (wherein R³² is as defined hereinbefore);
- 9) R³³ (wherein R³³ represents a pyridone group, a phenyl group or a
 5-6-membered aromatic heterocyclic group (linked via carbon or nitrogen) with
 1-3 heteroatoms selected from O, N and S, which pyridone, phenyl or aromatic
 heterocyclic group may carry up to 5 substituents selected from hydroxy, nitro,
 halogeno, amino, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄hydroxyalkyl, C₁₋₄aminoalkyl,
 C₁₋₄alkylamino, C₁₋₄hydroxyalkoxy, oxo, cyanoC₁₋₄alkyl, cyclopropyl,
 C₁₋₄alkylsulphonylC₁₋₄alkyl, C₁₋₄alkoxycarbonyl, di(C₁₋₄alkyl)amino,
 C₁₋₄alkylaminoC₁₋₄alkyl, C₁₋₄alkanoyl, di(C₁₋₄alkyl)aminoC₁₋₄alkyl,
 C₁₋₄alkylaminoC₁₋₄alkoxy, di(C₁₋₄alkyl)aminoC₁₋₄alkoxy, carboxy, carboxamido,
 trifluoromethyl, cyano, -C(O)NR³⁸R³⁹, -NR⁴⁰C(O)R⁴¹ (wherein R³⁸, R³⁹, R⁴⁰ and
 R⁴¹, which may be the same or different, each represents hydrogen, C₁₋₄alkyl,
 hydroxyC₁₋₄alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and a group $-(O)_f(C_{1-4}alkyl)_g ring D$
 (wherein f is 0 or 1, g is 0 or 1 and ring D is a cyclic group selected from
 C₃₋₆cycloalkyl, aryl or 5-6-membered saturated or unsaturated heterocyclic group
 with 1-2 heteroatoms, selected independently from O, S and N, which cyclic
 group may bear one or more substituents selected from halo and C₁₋₄alkyl);
- 10) -R^gR³³ (wherein R³³ is as defined hereinbefore);
- 11) -R^hR³³ (wherein R³³ is as defined hereinbefore);
- 12) -RⁱR³³ (wherein R³³ is as defined hereinbefore);

- 13) $-R^j X^6 R^{33}$ (wherein X^6 represents $-O-$, $-C(O)-$, $-S-$, $-SO-$, $-SO_2-$, $-OC(O)-$, $-NR^{38}C(O)-$, $-C(O)NR^{39}-$, $-SO_2NR^{40}-$, $-NR^{41}SO_2-$ or $-NR^{42}-$ (wherein R^{38} , R^{39} , R^{40} , R^{41} and R^{42} each independently represents hydrogen, C_{1-3} alkyl, hydroxy C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl) and R^{33} is as defined hereinbefore);
- 14) $-R^k X^7 R^{33}$ (wherein X^7 represents $-O-$, $C(O)-$, $-S-$, $-SO-$, $-SO_2-$, $-NR^{43}C(O)-$, $-C(O)NR^{44}-$, $-SO_2NR^{45}-$, $-NR^{46}SO_2-$ or $-NR^{47}-$ (wherein R^{43} , R^{44} , R^{45} , R^{46} and R^{47} each independently represents hydrogen, C_{1-3} alkyl, hydroxy C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl) and R^{33} is as defined hereinbefore);
- 15) $-R^m X^8 R^{33}$ (wherein X^8 represents $-O-$, $-C(O)-$, $-S-$, $-SO-$, $-SO_2-$, $-NR^{48}C(O)-$, $-C(O)NR^{49}-$, $-SO_2NR^{50}-$, $-NR^{51}SO_2-$ or $-NR^{52}-$ (wherein R^{48} , R^{49} , R^{50} , R^{51} and R^{52} each independently represents hydrogen, C_{1-3} alkyl, hydroxy C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl) and R^{33} is as defined hereinbefore);
- 16) $-R^n X^9 R^n R^{33}$ (wherein X^9 represents $-O-$, $-C(O)-$, $-S-$, $-SO-$, $-SO_2-$, $-NR^{53}C(O)-$, $-C(O)NR^{54}-$, $-SO_2NR^{55}-$, $-NR^{56}SO_2-$ or $-NR^{57}-$ (wherein R^{53} , R^{54} , R^{55} , R^{56} and R^{57} each independently represents hydrogen, C_{1-3} alkyl, hydroxy C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl) and R^{33} is as defined hereinbefore);
- 17) $-R^p X^9 -R^{p1} R^{32}$ (wherein X^9 and R^{32} are as defined hereinbefore);
- 18) C_{2-5} alkenyl which may be unsubstituted or which may be substituted with one or more groups selected from hydroxy, fluoro, amino, C_{1-4} alkylamino, $\underline{N,N}$ -di(C_{1-4} alkyl)amino, aminosulphonyl, \underline{N} - C_{1-4} alkylaminosulphonyl and $\underline{N,N}$ -di(C_{1-4} alkyl)aminosulphonyl;
- 19) C_{2-5} alkynyl which may be unsubstituted or which may be substituted with one or more groups selected from hydroxy, fluoro, amino, C_{1-4} alkylamino, $\underline{N,N}$ -di(C_{1-4} alkyl)amino, aminosulphonyl, \underline{N} - C_{1-4} alkylaminosulphonyl and $\underline{N,N}$ -di(C_{1-4} alkyl)aminosulphonyl;
- 20) $-R^t X^9 R^t R^{32}$ (wherein X^9 and R^{32} are as defined hereinbefore);
- 21) $-R^u X^9 R^u R^{32}$ (wherein X^9 and R^{32} are as defined hereinbefore); and
- 22) $-R^v R^{58}(R^v)_q(X^9)_r R^{59}$ (wherein X^9 is as defined hereinbefore, q is 0 or 1, r is 0 or 1, and R^{58} is a C_{1-3} alkylene group or a cyclic group selected from cyclopropyl, cyclobutyl, cyclopentylene, cyclohexylene or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which C_{1-3} alkylene group may bear 1 or 2 substituents selected from oxo,

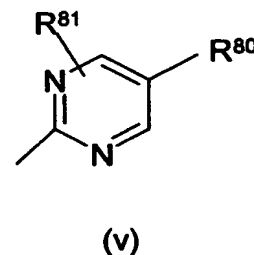
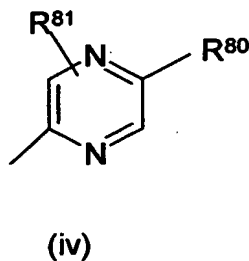
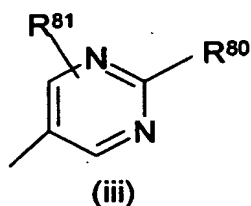
- 5') R^{32} (wherein R^{32} is a 5-6-membered saturated heterocyclic group (linked via carbon or nitrogen) with 1-2 heteroatoms, selected independently from O, S and N, which heterocyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C_{1-4} alkyl, C_{1-4} hydroxyalkyl, C_{1-4} alkoxy, C_{1-4} alkoxy C_{1-4} alkyl and C_{1-4} alkylsulphonyl C_{1-4} alkyl);
- 6') C_{1-5} alkyl R^{32} (wherein R^{32} is as defined in (5') above);
- 7') C_{2-5} alkenyl R^{32} (wherein R^{32} is as defined in (5') above);
- 8') C_{2-5} alkynyl R^{32} (wherein R^{32} is as defined in (5') above);
- 9') R^{33} (wherein R^{33} represents a pyridone group, a phenyl group or a 5-6-membered aromatic heterocyclic group (linked via carbon or nitrogen) with 1-3 heteroatoms selected from O, N and S, which pyridone, phenyl or aromatic heterocyclic group may carry up to 5 substituents on an available carbon atom selected from hydroxy, halogeno, amino, C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} hydroxyalkyl, C_{1-4} aminoalkyl, C_{1-4} alkylamino, C_{1-4} hydroxyalkoxy, carboxy, trifluoromethyl, cyano, $-CONR^{34}R^{35}$ and $-NR^{36}COR^{37}$ (wherein R^{34} , R^{35} , R^{36} and R^{37} , which may be the same or different, each represents hydrogen, C_{1-4} alkyl or C_{1-3} alkoxy C_{2-3} alkyl));
- 10') C_{1-5} alkyl R^{33} (wherein R^{33} is as defined in (9') above);
- 11') C_{2-5} alkenyl R^{33} (wherein R^{33} is as defined in (9') above);
- 12') C_{2-5} alkynyl R^{33} (wherein R^{33} is as defined in (9') above);
- 13') C_{1-5} alkyl X^6R^{33} (wherein X^6 represents $-O-$, $-S-$, $-SO-$, $-SO_2-$, $-NR^{38}CO-$, $-CONR^{39}-$, $-SO_2NR^{40}-$, $-NR^{41}SO_2-$ or $-NR^{42}-$ (wherein R^{38} , R^{39} , R^{40} , R^{41} and R^{42} each independently represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl) and R^{33} is as defined hereinbefore);
- 14') C_{2-5} alkenyl X^7R^{33} (wherein X^7 represents $-O-$, $-S-$, $-SO-$, $-SO_2-$, $-NR^{43}CO-$, $-CONR^{44}-$, $-SO_2NR^{45}-$, $-NR^{46}SO_2-$ or $-NR^{47}-$ (wherein R^{43} , R^{44} , R^{45} , R^{46} and R^{47} each independently represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl) and R^{33} is as defined hereinbefore);
- 15') C_{2-5} alkynyl X^8R^{33} (wherein X^8 represents $-O-$, $-S-$, $-SO-$, $-SO_2-$, $-NR^{48}CO-$, $-C(O)NR^{49}-$, $-SO_2NR^{50}-$, $-NR^{51}SO_2-$ or $-NR^{52}-$ (wherein R^{48} , R^{49} , R^{50} , R^{51} and R^{52} each independently represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl) and R^{33} is as defined hereinbefore);

14. A compound according to any one of the preceding claims wherein R^5 is optionally substituted pyridine.
15. A compound according to any one of claims 1 to 13 where R^5 is optionally substituted pyrimidine.
16. A compound according to claim 14 wherein R^5 is a group of sub-formulae (i) or (ii)



where R^{80} is a large substituent of a chain of at least 4 atoms, and R^{81} is hydrogen halo, C_{1-4} alkoxy, cyano or trifluoromethyl, or phenyl.

17. A compound according to claim 15 where R^5 is a group of sub-formula (iii), (iv) or (v)



where R^{80} is a large substituent of a chain of at least 4 atoms, and R^{81} is hydrogen halo, C_{1-4} alkoxy, cyano or trifluoromethyl, or phenyl.

18. A compound according to claim 17 wherein R^5 is a group of formula (iii).
19. A compound according to any one of claims 14 to 18 where pyridine or pyrimidine groups R^5 are substituted by one or more groups selected from a) a functional group as defined in claim 2 or claim 3;

b) a hydrocarbyl selected from alkyl, alkenyl, alkynyl, aryl, aralkyl, cycloalkyl, cycloalkenyl or cycloalkynyl, or combinations thereof ; any of which are optionally substituted by one or more functional groups as defined in claim 2 or claim 3;

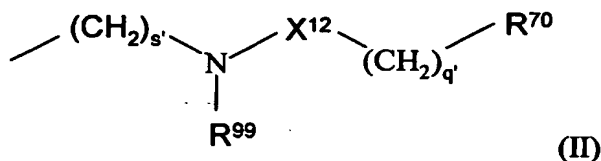
c) a heterocyclyl group optionally substituted by one or more functional groups as defined in claim 2 or claim 3 or hydrocarbyl groups selected from alkyl, alkenyl, alkynyl, aryl, aralkyl, cycloalkyl, cycloalkenyl or cycloalkynyl, or combinations thereof , wherein the hydrocarbyl group may be substituted by a functional group as defined in claim 2 or claim 3 or a heterocyclic group;

d)alkoxy optionally substituted by a functional group as defined in claim 2 or claim 3, or a heterocyclic group which is optionally substituted by a functional group as defined in claim 2 or claim 3.

20. A compound according to any one of the preceding claims wherein R⁵ is substituted by one or more groups selected from:

1) halo, C₁₋₄alkyl, optionally substituted C₁₋₆ alkoxy, C₁₋₄alkoxymethyl, di(C₁₋₄alkoxy)methyl, C₁₋₄alkanoyl, carboxy, benzoyl, trifluoromethyl, cyano, amino, C₂₋₅alkenyl, C₂₋₅alkynyl, a phenyl group, a benzyl group or a 5-6-membered heterocyclic group with 1-3 heteroatoms, selected independently from O, S and N, which heterocyclic group may be aromatic or non-aromatic and may be saturated (linked via a ring carbon or nitrogen atom) or unsaturated (linked via a ring carbon atom), and which phenyl, benzyl or heterocyclic group may bear on one or more ring carbon atoms up to 5 substituents selected from hydroxy, halogeno, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkanoyloxy, trifluoromethyl, cyano, amino, nitro, C₂₋₄alkanoyl, C₁₋₄alkanoylamino, C₁₋₄alkoxycarbonyl, C₁₋₄alkylsulphanyl, C₁₋₄alkylsulphinyl, C₁₋₄alkylsulphonyl, carbamoyl, N-C₁₋₄alkylcarbamoyl, N,N-di(C₁₋₄alkyl)carbamoyl, aminosulphonyl, N-C₁₋₄alkylaminosulphonyl, N,N-di(C₁₋₄alkyl)aminosulphonyl, C₁₋₄alkylsulphonylamino, and a saturated heterocyclic group selected from morpholino, thiomorpholino, pyrrolidinyl, piperazinyl, piperidinyl imidazolidinyl and pyrazolidinyl, which saturated heterocyclic group may bear 1 or 2

substituents selected from oxo, hydroxy, halogeno, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkanoyloxy, trifluoromethyl, cyano, amino, nitro and C₁₋₄alkoxycarbonyl; 2) a group of sub-formula (II)



where q' is 0, 1, 2, 3 or 4;

s' is 0 or 1;

X¹² is C(O) or S(O₂),

R⁷⁰ is hydrogen, hydroxy, C₁₋₆alkyl, C₁₋₆alkoxy, amino, *N*-C₁₋₆alkylamino, *N,N*-(C₁₋₆alkyl)₂amino, hydroxyC₂₋₆alkoxy, C₁₋₆alkoxyC₂₋₆alkoxy, aminoC₂₋₆alkoxy, *N*-C₁₋₆alkylaminoC₂₋₆alkoxy, *N,N*-(C₁₋₆alkyl)₂aminoC₂₋₆alkoxy or C₃₋₇cycloalkyl,

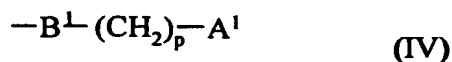
or R⁷⁰ is of the Formula (III):



wherein J is aryl, heteroaryl or heterocyclyl and K is a bond, oxy, imino, *N*-(C₁₋₆alkyl)imino, oxyC₁₋₆alkylene, iminoC₁₋₆alkylene, *N*-(C₁₋₆alkyl)iminoC₁₋₆alkylene, -NHC(O)-, -SO₂NH-, -NH₂SO₂- or -NHC(O)-C₁₋₆alkylene-,

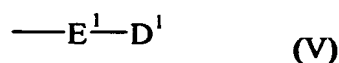
and any aryl, heteroaryl or heterocyclyl group in a R⁷⁰ group may be optionally substituted by one or more groups selected from hydroxy, oxo, halo, trifluoromethyl, cyano, mercapto, nitro, amino, carboxy, carbamoyl, formyl, sulphamoyl, C₁₋₆alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, C₁₋₆alkoxy, -O-(C₁₋₃alkyl)-O-, C₁₋₆alkylS(O)_n- (wherein n is 0-2), *N*-C₁₋₆alkylamino, *N,N*-(C₁₋₆alkyl)₂amino, C₁₋₆alkoxycarbonyl, *N*-C₁₋₆alkylcarbamoyl, *N,N*-(C₁₋₆alkyl)₂carbamoyl, C₂₋₆alkanoyl, C₁₋₆alkanoyloxy, C₁₋₆alkanoylamino, *N*-C₁₋₆alkylsulphamoyl, *N,N*-(C₁₋₆alkyl)₂sulphamoyl, C₁₋₆alkylsulphonylamino and C₁₋₆alkylsulphonyl-*N*-(C₁₋₆alkyl)amino,

or any aryl, heteroaryl or heterocyclyl group in a R⁷⁰ group may be optionally substituted with one or more groups of the Formula (IV):



wherein A^1 is halo, hydroxy, C_{1-6} alkoxy, cyano, amino, $N-C_{1-6}$ alkylamino, $N,N-(C_{1-6}alkyl)_2$ amino, carboxy, C_{1-6} alkoxycarbonyl, carbamoyl, $N-C_{1-6}$ alkylcarbamoyl or $N,N-(C_{1-6}alkyl)_2$ carbamoyl, p is 1 - 6, and B^1 is a bond, oxy, imino, $N-(C_{1-6}alkyl)$ imino or $-NHC(O)-$, with the proviso that p is 2 or more unless B^1 is a bond or $-NHC(O)-$;

or any aryl, heteroaryl or heterocyclyl group in a R^{70} group may be optionally substituted with one or more groups of the Formula (V):



wherein D^1 is aryl, heteroaryl or heterocyclyl and E^1 is a bond, C_{1-6} alkylene, oxy C_{1-6} alkylene, oxy, imino, $N-(C_{1-6}alkyl)$ imino, imino C_{1-6} alkylene, $N-(C_{1-6}alkyl)$ -imino C_{1-6} alkylene, C_{1-6} alkylene-oxy C_{1-6} alkylene, C_{1-6} alkylene-imino C_{1-6} alkylene, C_{1-6} alkylene- $N-(C_{1-6}alkyl)$ -imino C_{1-6} alkylene, $-NHC(O)-$, $-NHSO_2-$, $-SO_2NH-$ or $-NHC(O)-C_{1-6}alkylene-$, and any aryl, heteroaryl or heterocyclyl group in a substituent on R^4 may be optionally substituted with one or more groups selected from hydroxy, halo, C_{1-6} alkyl, C_{1-6} alkoxy, carboxy, C_{1-6} alkoxycarbonyl, carbamoyl, $N-C_{1-6}$ alkylcarbamoyl, $N,N-(C_{1-6}alkyl)_2$ carbamoyl, C_{2-6} alkanoyl, amino, $N-C_{1-6}$ alkylamino and $N,N-(C_{1-6}alkyl)_2$ amino,

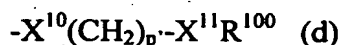
and any C_{3-7} cycloalkyl or heterocyclyl group in a R^{70} group may be optionally substituted with one or two oxo or thioxo substituents,

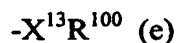
and any of the R^{70} groups defined hereinbefore which comprises a CH_2 group which is attached to 2 carbon atoms or a CH_3 group which is attached to a carbon atom may optionally bear on each said CH_2 or CH_3 group a substituent selected from hydroxy, amino, C_{1-6} alkoxy, $N-C_{1-6}$ alkylamino, $N,N-(C_{1-6}alkyl)_2$ amino and heterocyclyl;

or R^{70} may be cycloalkenyl or cycloalkynyl such as cyclohexenyl, or alkenyl optionally substituted by aryl;

and R^{99} is hydrogen or a group $C(O)R^{70}$ where R^{70} is as defined above;

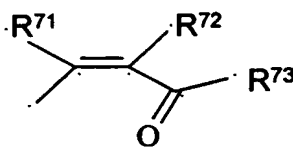
3) a group of sub-formula (d) or (e)





where p' is 1-3, X^{10} and X^{11} are independently selected from a bond, -O-, -S- or NR^{101} - where R^{101} is hydrogen or a C_{1-3} alkyl, provided that one of X^{10} or X^{11} is a bond; X^{13} is -O-, -S- or NR^{102} - where R^{102} is hydrogen or a C_{1-3} alkyl and R^{100} is hydrogen or optionally substituted hydrocarbyl or optionally substituted heterocycyl, wherein any optional substituents may be functional groups as defined in claim 2 or claim 3; or

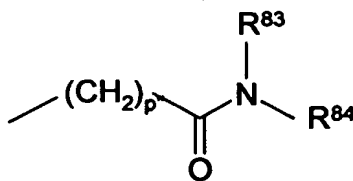
4) a group of formula (VI)



(VI)

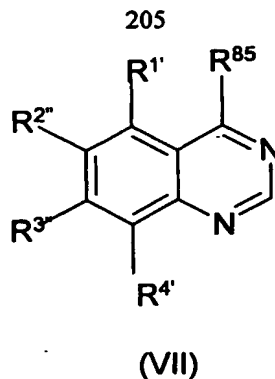
where R^{71} and R^{72} are independently selected from hydrogen or C_{1-4} alkyl, or R^{71} and R^{72} together form a bond, and R^{73} is a group OR^{74} , $NR^{75}R^{76}$ where R^{74} , R^{75} and R^{76} are independently selected from optionally substituted hydrocarbyl or optionally substituted heterocyclic groups, and R^{75} and R^{76} may additionally form together with the nitrogen atom to which they are attached, an aromatic or non-aromatic heterocyclic ring which may contain further heteroatoms, wherein suitable optional substituents for hydrocarbyl or heterocyclic groups R^{74} , R^{75} and R^{76} include functional groups as defined in claim 2 or claim 3 and heterocyclic groups R^{74} , R^{75} and R^{76} may further be substituted by a hydrocarbyl group;

5) a group of sub-formula (f)



(f)

where p'' is 0 or 1 and R^{83} and R^{84} are independently selected from hydrogen, optionally substituted hydrocarbyl or optionally substituted heterocycyl, or R^{83} and R^{84} together with the nitrogen atom to which they are attached form an



where R^1 , $R^{2''}$, $R^{3''}$, and $R^{4'}$ are equivalent to a group R^1 , R^2 , R^3 and R^4 as defined in relation to formula (I) or a precursor thereof, and R^{85} is a leaving group, with a compound of formula (VIII)



where X and R^5 are as defined in relation to formula (I); and thereafter if desired or necessary converting a group R^1 , $R^{2''}$, $R^{3''}$ or $R^{4'}$ to a group R^1 , R^2 , R^3 and R^4 respectively or to a different such group.

27. A method for inhibiting aurora 2 kinase in a warm blooded animal, such as man, in need of such treatment, which comprises administering to said animal an effective amount of a compound according to claim 1, or salt, ester amide or prodrug thereof.
28. The use of a compound according to any one of claims 1 to 25 or salt, ester, amide or prodrug thereof, in the preparation of a medicament to inhibiting aurora 2 kinase.
29. A pharmaceutical composition comprising a compound according to any one of claims 1 to 25 or salt, ester amide or prodrug thereof, in combination with a pharmaceutically acceptable carrier.
30. A compound according to any one of claims 1 to 25 or salt, ester, amide or prodrug thereof for use in therapy.